

# Values of a join or meet of funcoids

For every  $R \in \mathcal{P}\text{FCD}(A; B)$  and  $X \in \mathcal{P}A$ ,  $Y \in \mathcal{P}B$

1.  $X [\sqcup R]^* Y \Leftrightarrow \exists f \in R: X [f]^* Y$ ;
2.  $\langle \sqcup R \rangle^* X = \sqcup \{ \langle f \rangle^* X \mid f \in R \}$ .

For every  $R \in \mathcal{P}\text{FCD}(A; B)$  and  $x, y$  being ultrafilters on  $A$  and  $B$  correspondingly we have:

1.  $x [\sqcap R] y \Leftrightarrow \forall f \in R: x [f] y$ ;
2.  $\langle \sqcap R \rangle x = \cap \{ \langle f \rangle x \mid f \in R \}$ .